Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-13 (Cancelled).
- 14. (Previously Presented) A switching arrangement having:

a cross bar;

a plurality of ingress means connected to an input side of the cross-bar;

a plurality of egress means connected to an output side of the cross-bar, each ingress means including an ingress schedule storing means for storing a plurality of transmission queue identities, and each egress means including an egress schedule storing means for storing a plurality of ingress identities;

a management card which is adapted to transmit configuration primitives to each of the plurality of ingress means and to each of the plurality of egress means, the configuration primitives providing updated entries for the ingress and egress schedule storing means;

ingress pointer means for referencing one of said stored plurality of transmission queue identities; and

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egress pointer means for referencing one of said stored plurality of ingress identities from which data is to be received to manage the contents of each ingress schedule storing means and each egress schedule storing means;

whereby at each cell transmit time, a cell transmitted from a referenced transmission queue in the ingress means is received at said egress means from said referenced ingress identity.

- 15. (Previously Presented) The apparatus according to claim 14, further comprising for each ingress means a calculating means for calculating cross-bar rates required at each egress means.
- 16. (Previously Presented) The apparatus according to claim 15, wherein calculating means calculates said cross-bar rates, calculated according to current traffic load and quality of service required.
- 17. (Previously Presented) A method of routing data using a switching arrangement comprising a cross bar, a plurality of ingress means, each including ingress schedule storing means, a plurality of egress means, each including an egress schedule storing means, and a management card, said method comprising:

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a) storing a plurality of transmission queue identities in each ingress

schedule storing means;

b) storing a plurality of ingress identities in each egress schedule storing

means;

c) transmitting configuration primitives from the management card to

each of the plurality of ingress means and to each of the plurality of egress

means, the configuration primitives providing updates entries for the ingress

and egress schedule storing means;

d) managing contents of each ingress schedule storing means and each

egress schedule storing means by providing ingress pointer means to reference

one of said stored plurality of transmission queue identities and egress pointer

means to reference one of said stored plurality of ingress identities from which

data is to be received; and

e) at each cell transmit time, transmitting a cell from a referenced

transmission queue in the ingress means and receiving the cell at said egress

means from said referenced ingress identity.

18. (Previously Presented) A method according to claim 17, wherein

step e) further comprises moving said ingress pointer and said egress pointer to a

next location.

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19. (Previously Presented) The method according to claim 18, wherein step e) further comprises, when each pointer has reached a last location, moving

to a first location.

20. (Previously Presented) The method according to claim 19, wherein

step d) comprises, for each ingress means, calculating cross-bar rates required at

each egress means.

21. (Previously Presented) The method according to claim 20, wherein

said cross-bar rates are calculated according to current traffic load and quality of

service required.

22. (Previously Presented) The method according to claim 21, wherein

step d) further comprises calculating corresponding ingress and egress schedules

which satisfy said calculated cross-bar rates.

23. (Previously Presented) The method according to claim 22, further

comprising the step of updating the ingress and egress schedule storing means

with update messages relating to the calculated ingress and egress schedules.

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24. (New) A switch, comprising:

a cross bar;

a first and second ingress forwarder coupled to the cross bar, wherein the first and second ingress forwarders each include a plurality of data queues, an ingress timetable and a scheduler, wherein the plurality of data queues and ingress timetable are coupled to the scheduler;

a first and second egress forwarder coupled to the cross bar, wherein the first and second egress forwarders each include an egress timetable and an ingress selector coupled to the egress timetable; and

a management card coupled to the timetables of each of the first and second ingress and egress forwarders, wherein the management card provides updates to the timetables of each of the first and second ingress and egress forwarders.

- 25. (New) The switch of claim 24, wherein the ingress timetables identify which of the plurality of data queues is to be accessed at a particular time.
- 26. (New) The switch of claim 25, wherein the ingress timetables each include a pointer identifying which of the plurality of data queues is to be accessed at the particular time.

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- 27. (New) The switch of claim 24, wherein the egress timetables identify which of the first and second ingress forwarders from which the egress forwarder is to receive a cell at a particular time.
- 28. (New) The switch of 27, wherein the egress timetables each include a pointer identifying which of the first and second ingress forwarders from which the egress forwarder is to receive a cell at the particular time.
- 29. (New) The switch according to claim 24, wherein each ingress forwarder calculates cross-bar rates required at each egress forwarder.
- 30. (New) The apparatus according to claim 29, wherein the cross-bar rates are calculated according to current traffic load and quality of service required.